

***De novo* DNA CYTOSINE METHYLTRANSFERASE GENES,
POLYPEPTIDES AND USES THEREOF**

ABSTRACT

De novo DNA cytosine methyltransferase polynucleotides and polypeptides and methods for producing said polypeptides are disclosed. Also disclosed are methods for utilizing *de novo* DNA cytosine methyltransferase polynucleotides and polypeptides in diagnostic assays, in vitro DNA methylation assays for screening agonists and antagonists, and therapeutic applications such as the treatment of neoplastic disorders.

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